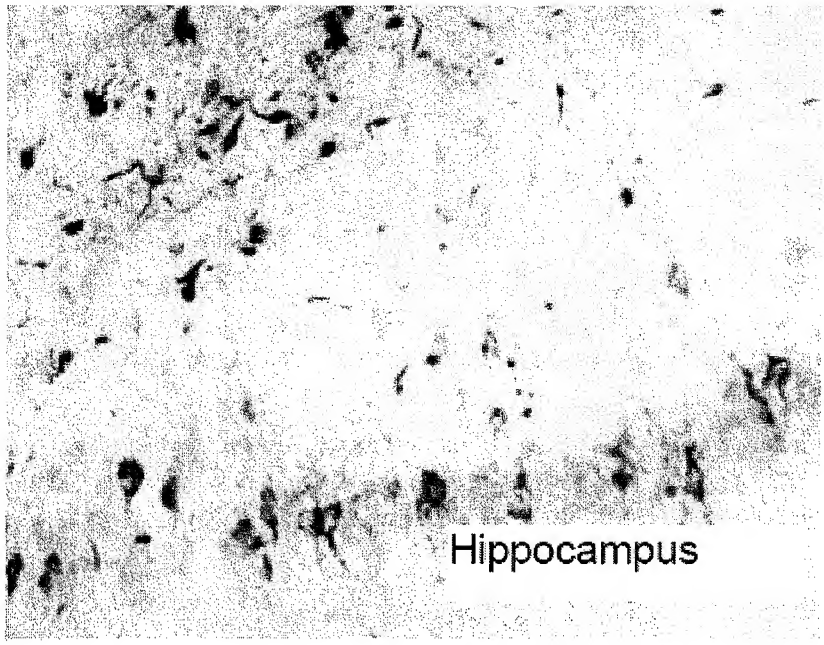
Figure 1



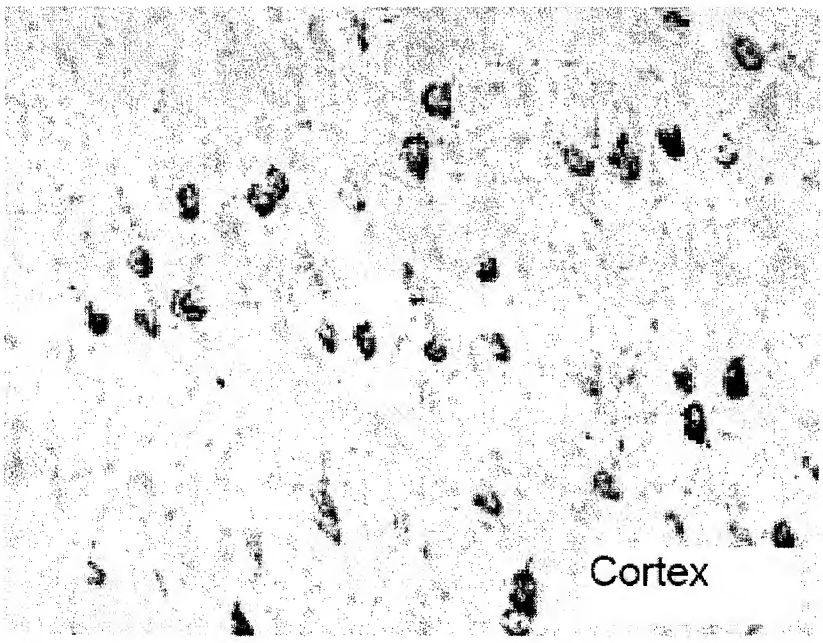


Figure 2

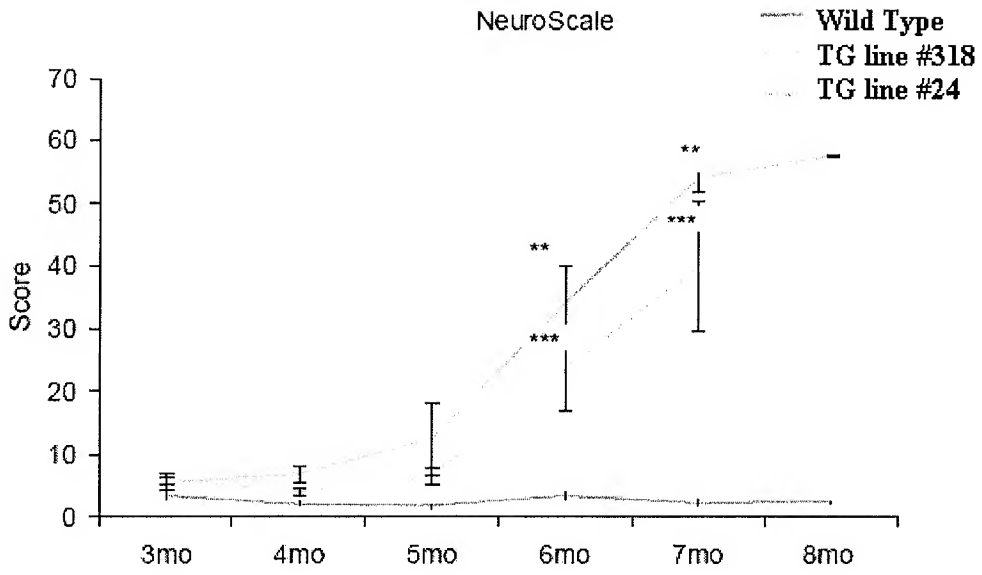

NeuroScale
Wild Type
TG line #318
TG line #24
Score
70
60
50
40
30
20
10
0
3mo
4mo
5mo
6mo
7mo
8mo
**
***
**
***

Figure 3

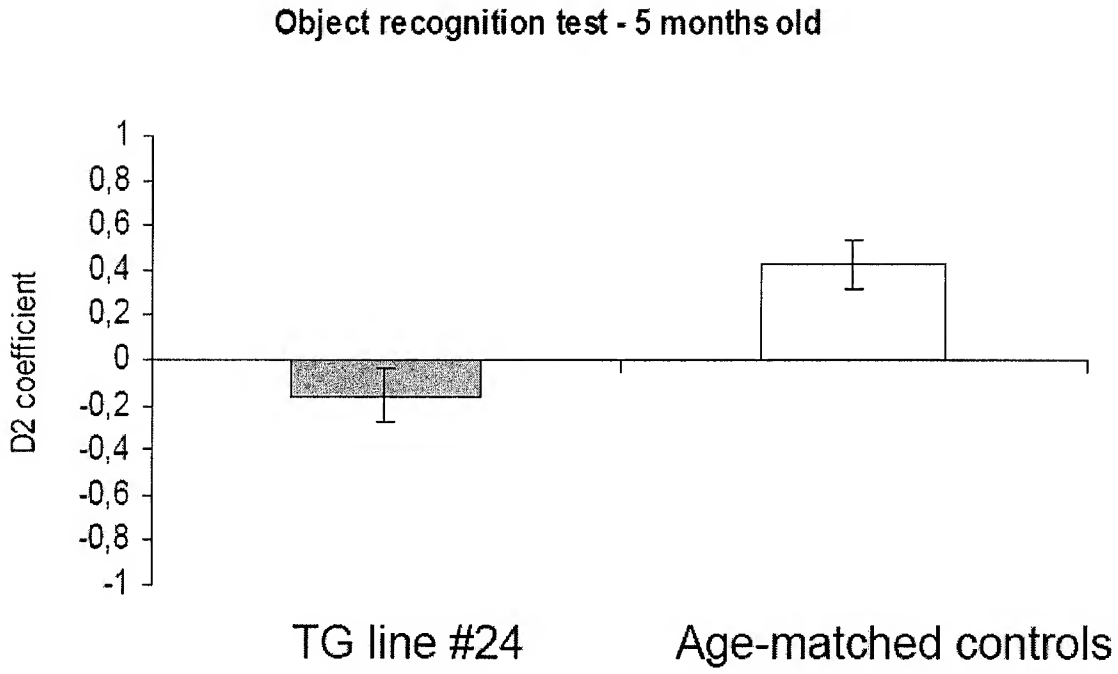

Object recognition test - 5 months old
D2 coefficient
1
0,8
0,6
0,4
0,2
0
-0,2
-0,4
-0,6
-0,8
-1
TG line #24
Age-matched controls

Fig.4

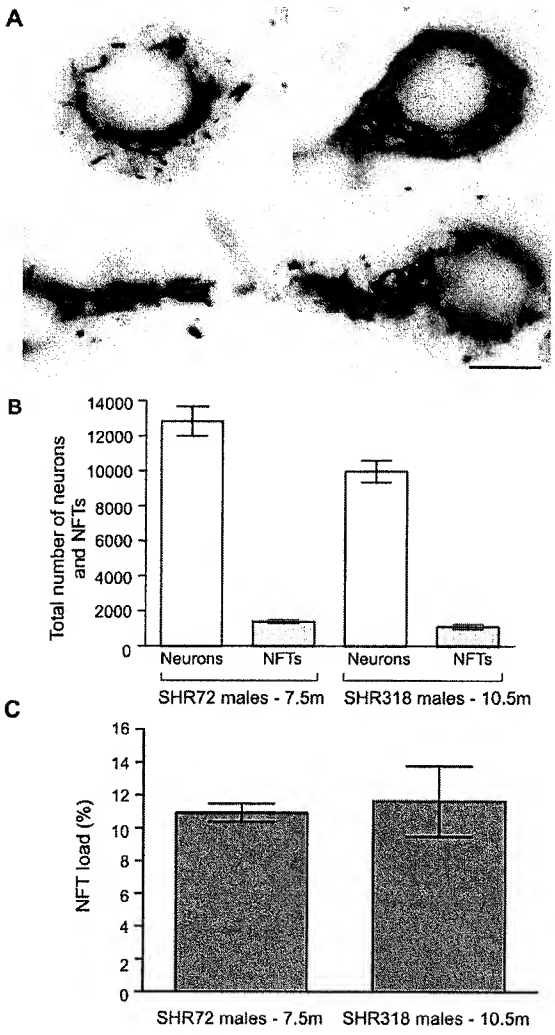

A
B
Total number of neurons and NFTs
14000
12000
10000
8000
6000
4000
2000
0
Neurons
NFTs
Neurons
NFTs
SHR72 males - 7.5m
SHR318 males - 10.5m
C
NFT load (%)
16
14
12
10
8
6
4
2
0
SHR72 males - 7.5m
SHR318 males - 10.5m

Fig. 5

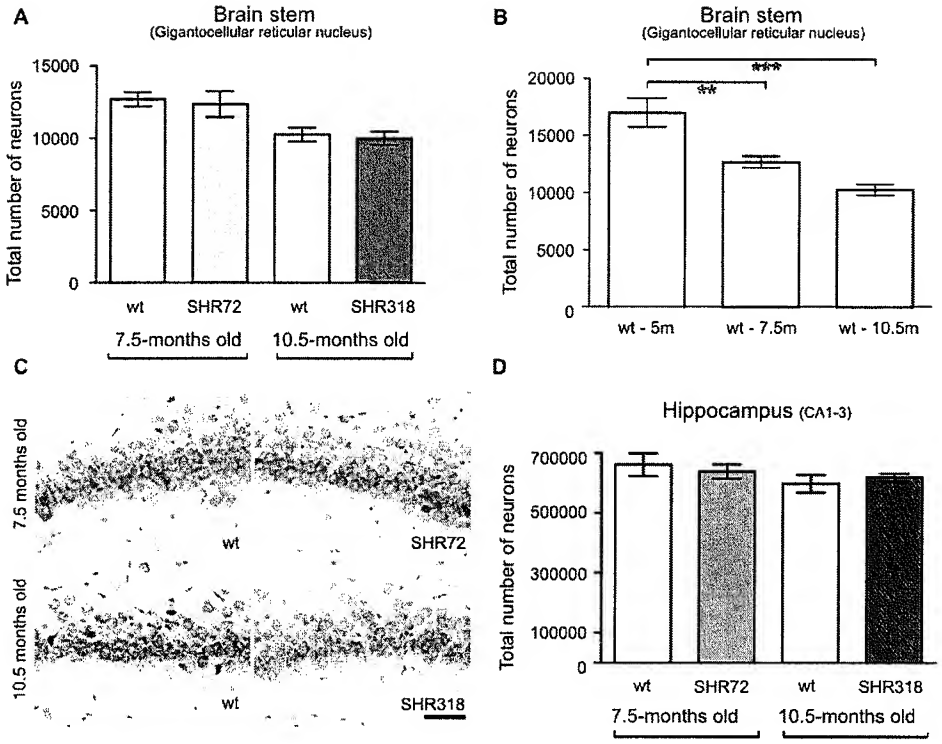

A
Brain stem
(Gigantocellular reticular nucleus)
Total number of neurons
15000
10000
5000
0
wt
SHR72
wt
SHR318
7.5-months old
10.5-months old
B
Brain stem
(Gigantocellular reticular nucleus)
Total number of neurons
20000
15000
10000
5000
0
***
**
wt - 5m
wt - 7.5m
wt - 10.5m
C
7.5 months old
10.5 months old
wt
SHR72
wt
SHR318
D
Hippocampus (CA1-3)
Total number of neurons
700000
500000
300000
100000
0
wt
SHR72
wt
SHR318
7.5-months old
10.5-months old

Fig. 6

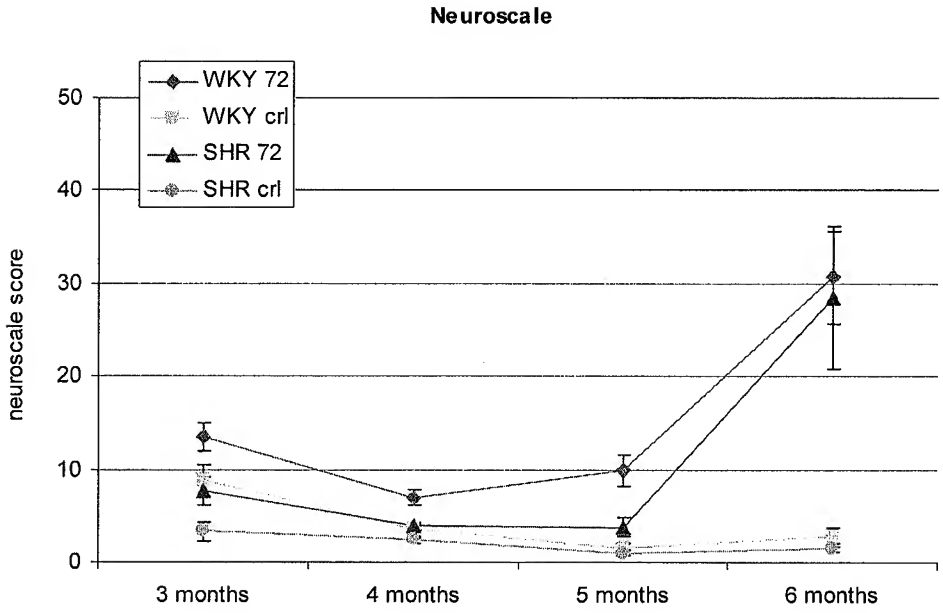

Neuroscale
WKY 72
WKY crl
SHR 72
SHR crl
neuroscale score
50
40
30
20
10
0
3 months
4 months
5 months
6 months

Fig. 7

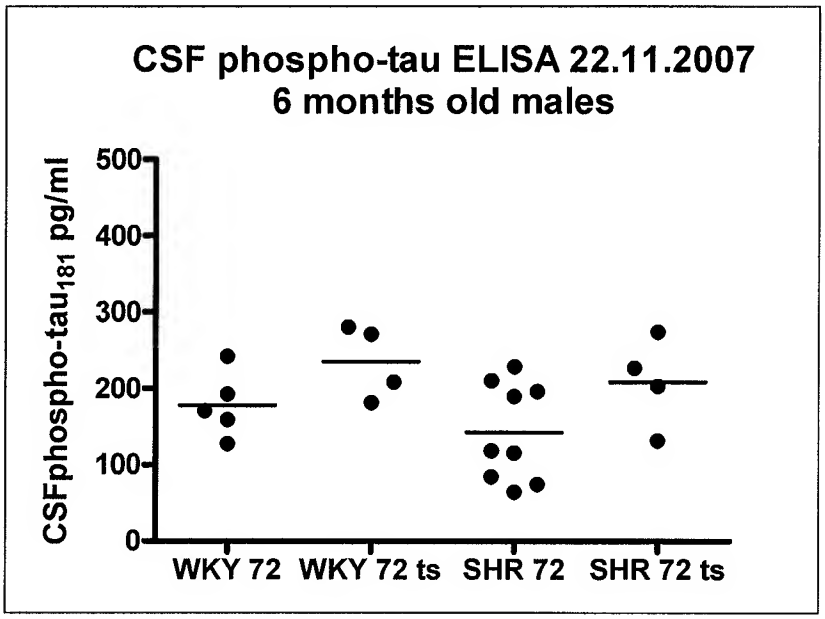
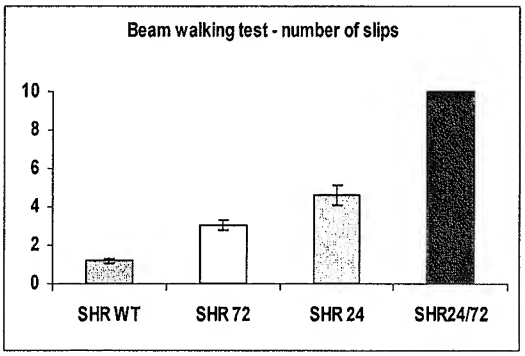

CSF phospho-tau ELISA 22.11.2007
6 months old males
CSFphospho-tau181 pg/ml
500
400
300
200
100
0
WKY 72
WKY 72 ts
SHR 72
SHR 72 ts

Fig. 8.


Beam walking test - number of slips
10
8
6
4
2
0
SHR WT
SHR 72
SHR 24
SHR24/72

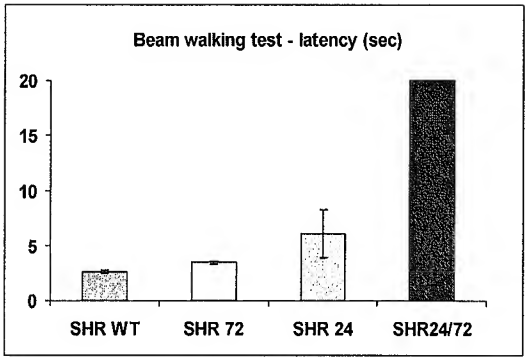
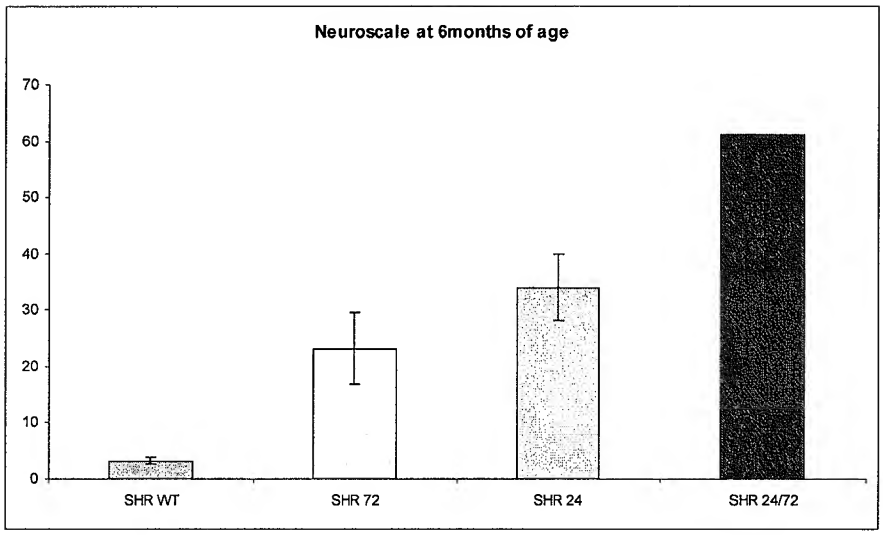

Beam walking test - latency (sec)
20
15
10
5
0
SHR WT
SHR 72
SHR 24
SHR24/72

Fig. 9.


Neuroscale at 6months of age
70
60
50
40
30
20
10
0
SHR WT
SHR 72
SHR 24
SHR 24/72